



CERTIFICATE OF ANALYSIS

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1. Identification

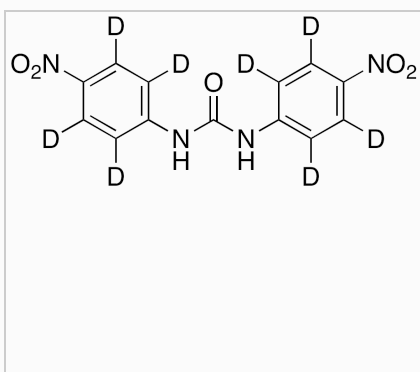
Catalogue Number: B508502

CAS Number: 1156508-87-0

Product: 1,3-Bis(4-nitrophenyl)urea-d8

Synonym: N,N'-Bis(p-nitrophenyl)urea-d8; 4,4'-Dinitrocarbanilide-d8; 4,4'-Dinitrodiphenylurea-d8; DNC-d8; N,N'-Di(p-nitrophenyl)urea-d8; NSC 101086-d8;

Structure:



Molecular Formula:

C₁₃H₂D₈N₄O₅

Molecular weight:

310.29

Source of Product:

Synthetic

Solubility:

DMSO (Slightly, Heated),
Methanol (Slightly)

Lot Number: 1-MUH-120-4

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Light Yellow to Yellow Solid	Yellow Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.7%
HPLC Purity	>95%	99.95% (350 nm)

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol : Ammonium Hydroxide = 9 : 1 : 0.1; Visualized with UV and KMnO₄; Single Spot, R_f = 0.50. Normalized Intensity: d0 = 0.18%, d1 = 0.00%, d2 = 0.00%, d3 = 0.00%, d4 = 0.00%, d5 = 0.00%, d6 = 0.95%, d7 = 7.33%, d8 = 91.55%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Steve Douglas	Neha Khanna	My Nguyen	12/16/2019	12/14/2026